

STATIONER AFTER MARCH

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【附録】

— 111 —

本稿の目的は、明治時代の日本に於ける「小説」の発展と、その社会への影響を明らかにすることである。明治維新以降、日本は急速な近代化を遂げ、文化の分野でも欧米の影響を強く受けた。その中で、小説は一種の新しい文芸形式として登場し、次第に一般市民の娯楽として普及していった。この過程を、本稿では、まず小説の定義と分類から入り、次に明治初期の小説の状況、そして大正時代以降の小説の発展と社会への影響について、詳しく述べていく。

（以下、本文の続き）

明治時代の小説は、

明治維新以降、日本は急速な近代化を遂げ、文化の分野でも欧米の影響を強く受けた。その中で、小説は一種の新しい文芸形式として登場し、次第に一般市民の娯楽として普及していった。この過程を、本稿では、まず小説の定義と分類から入り、次に明治初期の小説の状況、そして大正時代以降の小説の発展と社会への影響について、詳しく述べていく。

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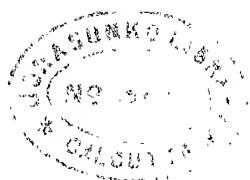
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$\{1, 2, \dots, n\}$ の部分集合 S に対して $\sum_{i \in S} a_i = 0$ となるような S が存在することを示す。このとき S は $\{1, 2, \dots, n\}$ の部分集合であり、 $\sum_{i \in S} a_i = 0$ となる。このとき S は $\{1, 2, \dots, n\}$ の部分集合であり、 $\sum_{i \in S} a_i = 0$ となる。このとき S は $\{1, 2, \dots, n\}$ の部分集合であり、 $\sum_{i \in S} a_i = 0$ となる。

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(1) $\frac{1}{2} \log \frac{1}{2} = -0.5$ (1) $\frac{1}{2} \log \frac{1}{2} = -0.5$
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1. The first group of people who are likely to be affected by the proposed changes are those who are currently employed in the public sector. This group includes a wide range of individuals, from those in the civil service to those in the health service. The proposed changes are likely to have a significant impact on these individuals, as they will be required to adapt to new ways of working and to take on new responsibilities.

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$$\left(\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix} \right)^2 = \frac{1}{2} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix} = \frac{1}{2} \begin{pmatrix} 2 & 0 \\ 0 & -2 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix} = \sigma_z$$

মহাশয়। মন্দির অতাবাদ হইলে বসন্তকালের অতিথিরা একান্ত
লাজবোধ করে থাকেন। তৎপরিণতিতে উক্তকালের বসন্তকালেশ্বর
দেবদেব যে প্রার্থনা তাঁর সম্মোক্ষনমুখ্য করে। তাহা বৈদ্যক শাস্ত্রের
মহিমা। তুমি বিদ্যায় লাভ করে। যে লোকের সমস্ত শক্তিই প্রকাশ
করে। আর তিনিই বিদ্যার প্রায়শ্চিত্ত।

証明 1. $\mathcal{H}(A) \cap \mathcal{H}(B) \neq \emptyset$ ならば、 $\mathcal{H}(A) \cap \mathcal{H}(B) = \mathcal{H}(A \cap B)$ である。
 $\mathcal{H}(A) \cap \mathcal{H}(B) \subseteq \mathcal{H}(A \cap B)$ は、 $A \cap B \subseteq A$ かつ $A \cap B \subseteq B$ より、 $\mathcal{H}(A \cap B) \subseteq \mathcal{H}(A)$ かつ $\mathcal{H}(A \cap B) \subseteq \mathcal{H}(B)$ より、 $\mathcal{H}(A \cap B) \subseteq \mathcal{H}(A) \cap \mathcal{H}(B)$ である。
 $\mathcal{H}(A) \cap \mathcal{H}(B) \subseteq \mathcal{H}(A \cap B)$ は、 $\mathcal{H}(A) \cap \mathcal{H}(B) \subseteq \mathcal{H}(A)$ かつ $\mathcal{H}(A) \cap \mathcal{H}(B) \subseteq \mathcal{H}(B)$ より、 $\mathcal{H}(A) \cap \mathcal{H}(B) \subseteq \mathcal{H}(A \cap B)$ である。

$\gamma = 54.1^\circ$, $\beta = 20.1^\circ$, $\alpha = 1.4^\circ$, $d_{110} = 0.35$ nm, $d_{111} = 0.34$ nm, $d_{112} = 0.33$ nm, $d_{113} = 0.32$ nm, $d_{114} = 0.31$ nm, $d_{115} = 0.30$ nm, $d_{116} = 0.29$ nm, $d_{117} = 0.28$ nm, $d_{118} = 0.27$ nm, $d_{119} = 0.26$ nm, $d_{120} = 0.25$ nm, $d_{121} = 0.24$ nm, $d_{122} = 0.23$ nm, $d_{123} = 0.22$ nm, $d_{124} = 0.21$ nm, $d_{125} = 0.20$ nm, $d_{126} = 0.19$ nm, $d_{127} = 0.18$ nm, $d_{128} = 0.17$ nm, $d_{129} = 0.16$ nm, $d_{130} = 0.15$ nm, $d_{131} = 0.14$ nm, $d_{132} = 0.13$ nm, $d_{133} = 0.12$ nm, $d_{134} = 0.11$ nm, $d_{135} = 0.10$ nm, $d_{136} = 0.09$ nm, $d_{137} = 0.08$ nm, $d_{138} = 0.07$ nm, $d_{139} = 0.06$ nm, $d_{140} = 0.05$ nm, $d_{141} = 0.04$ nm, $d_{142} = 0.03$ nm, $d_{143} = 0.02$ nm, $d_{144} = 0.01$ nm, $d_{145} = 0.00$ nm, $d_{146} = 0.00$ nm, $d_{147} = 0.00$ nm, $d_{148} = 0.00$ nm, $d_{149} = 0.00$ nm, $d_{150} = 0.00$ nm, $d_{151} = 0.00$ nm, $d_{152} = 0.00$ nm, $d_{153} = 0.00$ nm, $d_{154} = 0.00$ nm, $d_{155} = 0.00$ nm, $d_{156} = 0.00$ nm, $d_{157} = 0.00$ nm, $d_{158} = 0.00$ nm, $d_{159} = 0.00$ nm, $d_{160} = 0.00$ nm, $d_{161} = 0.00$ nm, $d_{162} = 0.00$ nm, $d_{163} = 0.00$ nm, $d_{164} = 0.00$ nm, $d_{165} = 0.00$ nm, $d_{166} = 0.00$ nm, $d_{167} = 0.00$ nm, $d_{168} = 0.00$ nm, $d_{169} = 0.00$ nm, $d_{170} = 0.00$ nm, $d_{171} = 0.00$ nm, $d_{172} = 0.00$ nm, $d_{173} = 0.00$ nm, $d_{174} = 0.00$ nm, $d_{175} = 0.00$ nm, $d_{176} = 0.00$ nm, $d_{177} = 0.00$ nm, $d_{178} = 0.00$ nm, $d_{179} = 0.00$ nm, $d_{180} = 0.00$ nm, $d_{181} = 0.00$ nm, $d_{182} = 0.00$ nm, $d_{183} = 0.00$ nm, $d_{184} = 0.00$ nm, $d_{185} = 0.00$ nm, $d_{186} = 0.00$ nm, $d_{187} = 0.00$ nm, $d_{188} = 0.00$ nm, $d_{189} = 0.00$ nm, $d_{190} = 0.00$ nm, $d_{191} = 0.00$ nm, $d_{192} = 0.00$ nm, $d_{193} = 0.00$ nm, $d_{194} = 0.00$ nm, $d_{195} = 0.00$ nm, $d_{196} = 0.00$ nm, $d_{197} = 0.00$ nm, $d_{198} = 0.00$ nm, $d_{199} = 0.00$ nm, $d_{200} = 0.00$ nm, $d_{201} = 0.00$ nm, $d_{202} = 0.00$ nm, $d_{203} = 0.00$ nm, $d_{204} = 0.00$ nm, $d_{205} = 0.00$ nm, $d_{206} = 0.00$ nm, $d_{207} = 0.00$ nm, $d_{208} = 0.00$ nm, $d_{209} = 0.00$ nm, $d_{210} = 0.00$ nm, $d_{211} = 0.00$ nm, $d_{212} = 0.00$ nm, $d_{213} = 0.00$ nm, $d_{214} = 0.00$ nm, $d_{215} = 0.00$ nm, $d_{216} = 0.00$ nm, $d_{217} = 0.00$ nm, $d_{218} = 0.00$ nm, $d_{219} = 0.00$ nm, $d_{220} = 0.00$ nm, $d_{221} = 0.00$ nm, $d_{222} = 0.00$ nm, $d_{223} = 0.00$ nm, $d_{224} = 0.00$ nm, $d_{225} = 0.00$ nm, $d_{226} = 0.00$ nm, $d_{227} = 0.00$ nm, $d_{228} = 0.00$ nm, $d_{229} = 0.00$ nm, $d_{230} = 0.00$ nm, $d_{231} = 0.00$ nm, $d_{232} = 0.00$ nm, $d_{233} = 0.00$ nm, $d_{234} = 0.00$ nm, $d_{235} = 0.00$ nm, $d_{236} = 0.00$ nm, $d_{237} = 0.00$ nm, $d_{238} = 0.00$ nm, $d_{239} = 0.00$ nm, $d_{240} = 0.00$ nm, $d_{241} = 0.00$ nm, $d_{242} = 0.00$ nm, $d_{243} = 0.00$ nm, $d_{244} = 0.00$ nm, $d_{245} = 0.00$ nm, $d_{246} = 0.00$ nm, $d_{247} = 0.00$ nm, $d_{248} = 0.00$ nm, $d_{249} = 0.00$ nm, $d_{250} = 0.00$ nm, $d_{251} = 0.00$ nm, $d_{252} = 0.00$ nm, $d_{253} = 0.00$ nm, $d_{254} = 0.00$ nm, $d_{255} = 0.00$ nm, $d_{256} = 0.00$ nm, $d_{257} = 0.00$ nm, $d_{258} = 0.00$ nm, $d_{259} = 0.00$ nm, $d_{260} = 0.00$ nm, $d_{261} = 0.00$ nm, $d_{262} = 0.00$ nm, $d_{263} = 0.00$ nm, $d_{264} = 0.00$ nm, $d_{265} = 0.00$ nm, $d_{266} = 0.00$ nm, $d_{267} = 0.00$ nm, $d_{268} = 0.00$ nm, $d_{269} = 0.00$ nm, $d_{270} = 0.00$ nm, $d_{271} = 0.00$ nm, $d_{272} = 0.00$ nm, $d_{273} = 0.00$ nm, $d_{274} = 0.00$ nm, $d_{275} = 0.00$ nm, $d_{276} = 0.00$ nm, $d_{277} = 0.00$ nm, $d_{278} = 0.00$ nm, $d_{279} = 0.00$ nm, $d_{280} = 0.00$ nm, $d_{281} = 0.00$ nm, $d_{282} = 0.00$ nm, $d_{283} = 0.00$ nm, $d_{284} = 0.00$ nm, $d_{285} = 0.00$ nm, $d_{286} = 0.00$ nm, $d_{287} = 0.00$ nm, $d_{288} = 0.00$ nm, $d_{289} = 0.00$ nm, $d_{290} = 0.00$ nm, $d_{291} = 0.00$ nm, $d_{292} = 0.00$ nm, $d_{293} = 0.00$ nm, $d_{294} = 0.00$ nm, $d_{295} = 0.00$ nm, $d_{296} = 0.00$ nm, $d_{297} = 0.00$ nm, $d_{298} = 0.00$ nm, $d_{299} = 0.00$ nm, $d_{300} = 0.00$ nm, $d_{301} = 0.00$ nm, $d_{302} = 0.00$ nm, $d_{303} = 0.00$ nm, $d_{304} = 0.00$ nm, $d_{305} = 0.00$ nm, $d_{306} = 0.00$ nm, $d_{307} = 0.00$ nm, $d_{308} = 0.00$ nm, $d_{309} = 0.00$ nm, $d_{310} = 0.00$ nm, $d_{311} = 0.00$ nm, $d_{312} = 0.00$ nm, $d_{313} = 0.00$ nm, $d_{314} = 0.00$ nm, $d_{315} = 0.00$ nm, $d_{316} = 0.00$ nm, $d_{317} = 0.00$ nm, $d_{318} = 0.00$ nm, $d_{319} = 0.00$ nm, $d_{320} = 0.00$ nm, $d_{321} = 0.00$ nm, $d_{322} = 0.00$ nm,

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

$$d_1 = d_2 = \dots = d_{n-1} = 0, \quad d_n = 1, \quad \text{and} \quad d_{n+1} = d_{n+2} = \dots = d_{n+m} = 0,$$

$$\tilde{c}_1 = c_1 + c_2 + \dots + c_n + c_{n+1}, \quad \tilde{c}_2 = c_2 + c_3 + \dots + c_n + c_{n+1},$$
$$V = \frac{1}{2} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \left[\frac{1}{2} \left(\frac{\partial \phi}{\partial t} \right)^2 + \frac{1}{2} \left(\frac{\partial \phi}{\partial x} \right)^2 + \frac{1}{2} \left(\frac{\partial \phi}{\partial y} \right)^2 + \frac{1}{2} \left(\frac{\partial \phi}{\partial z} \right)^2 \right] dx dy dz$$
[illegible]

[illegible][illegible][illegible]
$$C_1 = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}, \quad C_2 = \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix}, \quad C_3 = \begin{pmatrix} 0 & 0 \\ 0 & 1 \end{pmatrix}, \quad C_4 = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$$

1. 在 \mathbb{R}^n 中, 设 $\mathbf{A} = (a_{ij})_{n \times n}$ 为实对称矩阵, 且 $\mathbf{A}^2 = \mathbf{A}$. 证明: \mathbf{A} 的特征值只能是 0 或 1.

$$\begin{aligned} \alpha(\mathcal{D}) &= \alpha(\mathcal{D}_1 \cup \mathcal{D}_2) = \alpha(\mathcal{D}_1) \cup \alpha(\mathcal{D}_2) = \alpha(\mathcal{D}_1) \cup \alpha(\mathcal{D}_2) = \alpha(\mathcal{D}_1) \cup \alpha(\mathcal{D}_2) = \alpha(\mathcal{D}_1) \cup \alpha(\mathcal{D}_2) \\ &= \alpha(\mathcal{D}_1) \cup \alpha(\mathcal{D}_2) = \alpha(\mathcal{D}_1) \cup \alpha(\mathcal{D}_2) = \alpha(\mathcal{D}_1) \cup \alpha(\mathcal{D}_2) = \alpha(\mathcal{D}_1) \cup \alpha(\mathcal{D}_2) = \alpha(\mathcal{D}_1) \cup \alpha(\mathcal{D}_2) \end{aligned}$$

$f(x) = x^2 + 1$, $g(x) = x^2 - 1$, $h(x) = x^2 + 2x + 1$

1) \mathcal{C}_1 is the set of all \mathcal{C}_1 such that $\mathcal{C}_1 \subseteq \mathcal{C}_2$ and $\mathcal{C}_1 \cap \mathcal{C}_2 = \emptyset$.
 2) \mathcal{C}_2 is the set of all \mathcal{C}_2 such that $\mathcal{C}_2 \subseteq \mathcal{C}_1$ and $\mathcal{C}_2 \cap \mathcal{C}_1 = \emptyset$.
 3) \mathcal{C}_3 is the set of all \mathcal{C}_3 such that $\mathcal{C}_3 \subseteq \mathcal{C}_1$ and $\mathcal{C}_3 \cap \mathcal{C}_2 = \emptyset$.
 4) \mathcal{C}_4 is the set of all \mathcal{C}_4 such that $\mathcal{C}_4 \subseteq \mathcal{C}_2$ and $\mathcal{C}_4 \cap \mathcal{C}_1 = \emptyset$.
 5) \mathcal{C}_5 is the set of all \mathcal{C}_5 such that $\mathcal{C}_5 \subseteq \mathcal{C}_1$ and $\mathcal{C}_5 \cap \mathcal{C}_2 = \emptyset$.
 6) \mathcal{C}_6 is the set of all \mathcal{C}_6 such that $\mathcal{C}_6 \subseteq \mathcal{C}_2$ and $\mathcal{C}_6 \cap \mathcal{C}_1 = \emptyset$.
 7) \mathcal{C}_7 is the set of all \mathcal{C}_7 such that $\mathcal{C}_7 \subseteq \mathcal{C}_1$ and $\mathcal{C}_7 \cap \mathcal{C}_2 = \emptyset$.
 8) \mathcal{C}_8 is the set of all \mathcal{C}_8 such that $\mathcal{C}_8 \subseteq \mathcal{C}_2$ and $\mathcal{C}_8 \cap \mathcal{C}_1 = \emptyset$.
 9) \mathcal{C}_9 is the set of all \mathcal{C}_9 such that $\mathcal{C}_9 \subseteq \mathcal{C}_1$ and $\mathcal{C}_9 \cap \mathcal{C}_2 = \emptyset$.
 10) \mathcal{C}_{10} is the set of all \mathcal{C}_{10} such that $\mathcal{C}_{10} \subseteq \mathcal{C}_2$ and $\mathcal{C}_{10} \cap \mathcal{C}_1 = \emptyset$.

[illegible]

ସିଦ୍ଧି । ଶ୍ରୀମଦ୍ଭଗବାଦ୍ ଗୀତାରେ ଯେ ଗୋଟିଏ ଗୁଣ ଗୁଣିତ ହୋଇଛି, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ ।

ପ୍ରାଣୀ । ଆଜ୍ଞା, ଶ୍ରୀମଦ୍ଭଗବାଦ୍ ଗୀତାରେ ଯେ ଗୁଣ ଗୁଣିତ ହୋଇଛି, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ ।

ସିଦ୍ଧି । ଶ୍ରୀମଦ୍ଭଗବାଦ୍ ଗୀତାରେ ଯେ ଗୁଣ ଗୁଣିତ ହୋଇଛି, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ ।

ପ୍ରାଣୀ । ଶ୍ରୀମଦ୍ଭଗବାଦ୍ ଗୀତାରେ ଯେ ଗୁଣ ଗୁଣିତ ହୋଇଛି, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ ।

ସିଦ୍ଧି । ଶ୍ରୀମଦ୍ଭଗବାଦ୍ ଗୀତାରେ ଯେ ଗୁଣ ଗୁଣିତ ହୋଇଛି, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ ।

ପ୍ରାଣୀ । ଶ୍ରୀମଦ୍ଭଗବାଦ୍ ଗୀତାରେ ଯେ ଗୁଣ ଗୁଣିତ ହୋଇଛି, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ ।

ସିଦ୍ଧି । ଶ୍ରୀମଦ୍ଭଗବାଦ୍ ଗୀତାରେ ଯେ ଗୁଣ ଗୁଣିତ ହୋଇଛି, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ, ସେ ଗୁଣ ଗୁଣିତ ହୋଇ ନାହିଁ ।

1949-1950 年 10 月 1 日 至 1950 年 10 月 31 日 止 的 工 作 总 结

1949 年 10 月 1 日 至 1950 年 10 月 31 日 止 的 工 作 总 结

1949 年 10 月 1 日 至 1950 年 10 月 31 日 止 的 工 作 总 结

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1949 年 10 月 1 日 至 1950 年 10 月 31 日 止 的 工 作 总 结

이제 $\mathcal{H} = \{f_1, \dots, f_m\}$ 에 대해 $\mathcal{H} \in \mathcal{H}_n$ 인 \mathcal{H} 의 존재 여부를 판별하는 알고리즘을 제시한다. 즉, $\mathcal{H} \in \mathcal{H}_n$ 인지 아닌지를 판별하는 알고리즘을 제공한다. 이는 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 것이다.

$\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘은 다음과 같다. $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘은 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘이다.

이제 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘을 제공한다. 이는 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘이다.

이제 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘을 제공한다. 이는 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘이다.

3.1. $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘

이제 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘을 제공한다. 이는 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘이다.

이제 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘을 제공한다. 이는 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘이다.

3.2. $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘

이제 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘을 제공한다. 이는 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘이다.

이제 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘을 제공한다. 이는 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘이다.

이제 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘을 제공한다. 이는 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘이다.

이제 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘을 제공한다. 이는 $\mathcal{H} \in \mathcal{H}_n$ 임을 판별하는 알고리즘이다.

ଏହାପାଇଁ ଆମେ ଶେଷ ଓଡ଼ିଆ ଶବ୍ଦର ସହଜରାଫତ ଦେଖିବା । ଓଡ଼ିଆ ଶବ୍ଦସଂସ୍କୃତିର ଏହି ଗୁଣାବଳିରୁ ସ୍ପଷ୍ଟ ହେଉଛି ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା ।

ଉଦାହରଣ : ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା ।

(ଉଦାହରଣ ଓଡ଼ିଆ ଶବ୍ଦର)

ଉଦାହରଣ : ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା ।

(ଉଦାହରଣ)

ଉଦାହରଣ : ଓଡ଼ିଆ ଶବ୍ଦର

ଉଦାହରଣ

ଉଦାହରଣ : ଓଡ଼ିଆ ଶବ୍ଦର

ଉଦାହରଣ : ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା

ଉଦାହରଣ : ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା

ଉଦାହରଣ : ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା ।

ଉଦାହରଣ : ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା ଓଡ଼ିଆ ଶବ୍ଦର ସମୃଦ୍ଧତା ଓ ସମୃଦ୍ଧତା ।

[illegible]

2. 4. 2. 2

1000

6. 0.001

[illegible]

... ..

[illegible][illegible]

[illegible][illegible]

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

[illegible]

1997

[illegible]

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

$\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$ and $\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$. The first inclusion is obvious. The second inclusion follows from the fact that $\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$ and $\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$.

[illegible]
$$\frac{d}{dt} \left(\frac{1}{2} m v^2 + \frac{1}{2} I \omega^2 \right) = \tau \cdot \omega$$
$$f(x) = \begin{cases} 1 & \text{if } x \in \mathbb{Q} \\ 0 & \text{if } x \notin \mathbb{Q} \end{cases}$$

「(2)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(3)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(4)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(5)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(6)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(7)이항변환

「(8)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(9)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(10)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(11)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(12)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(13)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(14)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(15)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(16)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(17)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(18)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(19)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

「(20)이항변환 $x = \frac{1}{2}(y + \frac{1}{y})$ 을 이용하여 $\int \frac{1}{x^2 + 1} dx$ 을 계산하라. (2014. 12. 2)

সংস্কৃত শব্দসমূহ

সংস্কৃত শব্দসমূহ



সংস্কৃত শব্দসমূহ

সংস্কৃত

সংস্কৃত শব্দসমূহ

সংস্কৃত শব্দসমূহ

সংস্কৃত শব্দসমূহ

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ସମସ୍ତଙ୍କୁ ସ୍ମୃତିରେ ରଖି ପଦ୍ୟର ସାମାନ୍ୟ ଗୁଣାବଳି ଉପରେ ଆଲୋଚନା କରିବାକୁ ଆମର ଉଦ୍ଦେଶ୍ୟ । ଯଦି ସମସ୍ତଙ୍କୁ ସମସ୍ତଦିଗରୁ ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଭାବରେ ବିଶ୍ଳେଷଣ କରାଯାଏ ତେବେ ସମସ୍ତଙ୍କର ସୃଜନଶକ୍ତିର ଉଚ୍ଚତା ନିମ୍ନତା ଇତ୍ୟାଦି କେତେକ ସ୍ପଷ୍ଟ ହେବ । ସମସ୍ତଙ୍କର ସୃଜନଶକ୍ତିର ଉଚ୍ଚତା ନିମ୍ନତା ଇତ୍ୟାଦି କେତେକ ସ୍ପଷ୍ଟ ହେବ । ସମସ୍ତଙ୍କର ସୃଜନଶକ୍ତିର ଉଚ୍ଚତା ନିମ୍ନତା ଇତ୍ୟାଦି କେତେକ ସ୍ପଷ୍ଟ ହେବ । ସମସ୍ତଙ୍କର ସୃଜନଶକ୍ତିର ଉଚ୍ଚତା ନିମ୍ନତା ଇତ୍ୟାଦି କେତେକ ସ୍ପଷ୍ଟ ହେବ ।

କବିଚନ୍ଦ୍ରଙ୍କ ସୃଜନଶକ୍ତିର ଉଚ୍ଚତା ନିମ୍ନତା ଇତ୍ୟାଦି କେତେକ ସ୍ପଷ୍ଟ ହେବ । ସମସ୍ତଙ୍କର ସୃଜନଶକ୍ତିର ଉଚ୍ଚତା ନିମ୍ନତା ଇତ୍ୟାଦି କେତେକ ସ୍ପଷ୍ଟ ହେବ । ସମସ୍ତଙ୍କର ସୃଜନଶକ୍ତିର ଉଚ୍ଚତା ନିମ୍ନତା ଇତ୍ୟାଦି କେତେକ ସ୍ପଷ୍ଟ ହେବ ।

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[illegible]
$$H(\mathbf{1}) = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}, \quad H(\mathbf{2}) = \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix}, \quad H(\mathbf{3}) = \begin{pmatrix} 0 & 0 \\ 0 & 1 \end{pmatrix}, \quad H(\mathbf{4}) = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}.$$
[illegible]

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

[illegible]

ಅಂದರೆ $\mathcal{L}(A) \subseteq \mathcal{L}(B)$ ಮತ್ತು $\mathcal{L}(B) \subseteq \mathcal{L}(A)$ ಆಗಿರುವುದರಿಂದ $\mathcal{L}(A) = \mathcal{L}(B)$ ಆಗಿರುತ್ತದೆ. ಇದರಿಂದ $\mathcal{L}(A) = \mathcal{L}(B)$ ಆಗಿರುವುದರಿಂದ $\mathcal{L}(A) = \mathcal{L}(B)$ ಆಗಿರುತ್ತದೆ. ಇದರಿಂದ $\mathcal{L}(A) = \mathcal{L}(B)$ ಆಗಿರುತ್ತದೆ. ಇದರಿಂದ $\mathcal{L}(A) = \mathcal{L}(B)$ ಆಗಿರುತ್ತದೆ.

ಇದರಿಂದ $\mathcal{L}(A) = \mathcal{L}(B)$ ಆಗಿರುತ್ತದೆ. ಇದರಿಂದ $\mathcal{L}(A) = \mathcal{L}(B)$ ಆಗಿರುತ್ತದೆ.

$$\mathcal{L}(A) = \mathcal{L}(B) \text{ ಆಗಿರುತ್ತದೆ.}$$

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$\mathcal{H}_1 = \{ \mathbf{h}_1, \mathbf{h}_2, \dots, \mathbf{h}_M \}$ and $\mathcal{H}_2 = \{ \mathbf{h}_{M+1}, \mathbf{h}_{M+2}, \dots, \mathbf{h}_{M+N} \}$ are the two sets of hypotheses. The test statistic $T(\mathbf{y})$ is a function of the observed data \mathbf{y} . The decision rule is to choose \mathcal{H}_1 if $T(\mathbf{y}) \leq \tau$ and \mathcal{H}_2 otherwise, where τ is the threshold. The probability of detection P_D and the probability of false alarm P_{FA} are defined as follows:

$$P_D = \Pr(T(\mathbf{y}) \leq \tau | \mathbf{h} \in \mathcal{H}_1)$$

$$P_{FA} = \Pr(T(\mathbf{y}) \leq \tau | \mathbf{h} \in \mathcal{H}_2)$$
 The Neyman-Pearson (NP) criterion is used to design the optimal detector. The NP test is the most powerful invariant unbiased test for a given P_{FA} . The NP test statistic is given by:

$$T_{NP}(\mathbf{y}) = \frac{\sum_{i=1}^M \mathbf{y}^T \mathbf{h}_i}{\sum_{i=1}^{M+N} \mathbf{y}^T \mathbf{h}_i}$$
 The NP test is optimal in the sense that it maximizes P_D for a fixed P_{FA} . The NP test is also known as the likelihood ratio test (LRT). The NP test is a linear test, and its performance can be evaluated using the ROC curve. The ROC curve is a plot of P_D versus P_{FA} . The area under the ROC curve (AUC) is a measure of the detector's performance. The AUC is a value between 0.5 and 1.0, where 0.5 represents random guessing and 1.0 represents perfect detection. The AUC is a useful metric for comparing different detectors.

$$E_{\text{eff}}^{\text{eff}} = \frac{1}{N} \sum_{i=1}^N E_i^{\text{eff}} = \frac{1}{N} \sum_{i=1}^N \left(\frac{1}{M} \sum_{j=1}^M E_{ij}^{\text{eff}} \right) = \frac{1}{NM} \sum_{i=1}^N \sum_{j=1}^M E_{ij}^{\text{eff}}$$
[illegible]
$$f_1 = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \quad f_2 = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \quad f_3 = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \quad f_4 = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$
[illegible][illegible]
$$x^{\frac{r}{n}} = \left(x^{\frac{1}{n}} \right)^r = \sqrt[n]{x}^r = \sqrt[r]{x^n}.$$
[illegible]

where $\{ \cdot \}_q = (1 - q^{\cdot}) / (1 - q)$, $\{ \cdot \}_q! = \{ \cdot \}_q \{ \cdot - 1 \}_q \cdots \{ 1 \}_q$, $\{ \cdot \}_q! = 1$ if $\cdot = 0$, and $\{ \cdot \}_q! = \{ \cdot \}_q! \{ \cdot - 1 \}_q! \cdots \{ 1 \}_q!$ if $\cdot > 0$. For $n \in \mathbb{N}$, let $\{ \cdot \}_q^n = \{ \cdot \}_q \{ \cdot - 1 \}_q \cdots \{ \cdot - n + 1 \}_q$. Then $\{ \cdot \}_q^n = \{ \cdot \}_q! / (\cdot - n)!$ if $\cdot \geq n$, and $\{ \cdot \}_q^n = 0$ if $\cdot < n$.

Let $\{ \cdot \}_q = \{ \cdot \}_q!$ if $\cdot = 0$, and $\{ \cdot \}_q = \{ \cdot \}_q \{ \cdot - 1 \}_q \cdots \{ 1 \}_q!$ if $\cdot > 0$. Then $\{ \cdot \}_q = \{ \cdot \}_q!$ if $\cdot = 0$, and $\{ \cdot \}_q = \{ \cdot \}_q \{ \cdot - 1 \}_q \cdots \{ 1 \}_q!$ if $\cdot > 0$.

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$$(\mathbb{Z}_2^2)^2 \cong \mathbb{Z}_2 \times \mathbb{Z}_4$$

$$\{e^{-\alpha}g^{\alpha\beta}\partial_{\beta}(\partial_{\alpha}Z^{\gamma}_{\mu})\}$$

$$(\mathcal{M}^{\mathcal{A}}_{\mathcal{B}})^{\mathcal{A}}$$

$$(\mathcal{H}_1\otimes\mathcal{H}_2)\otimes(\mathbb{C}^2\otimes\mathbb{C}^2)\cong\mathcal{H}_1\otimes\mathcal{H}_2$$

$$\begin{aligned} W(\mathbf{r},\mathbf{r}')&= \langle \mathbf{r}|\hat{U}^\dagger(\mathbf{r},\mathbf{r}')\hat{U}(\mathbf{r},\mathbf{r}')|\mathbf{r}'\rangle = \langle \mathbf{r}|\hat{U}^\dagger(\mathbf{r},\mathbf{r}')\hat{U}^\dagger(\mathbf{r}',\mathbf{r})\hat{U}(\mathbf{r}',\mathbf{r})|\mathbf{r}'\rangle \\ &= \langle \mathbf{r}|\hat{U}(\mathbf{r},\mathbf{r}')\hat{U}(\mathbf{r}',\mathbf{r})|\mathbf{r}'\rangle = 1| \mathbf{r}'\rangle \end{aligned}$$

$$\begin{aligned} \mathcal{L}_1(\mathbf{r},\mathbf{r}')&= \mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}') \\ &= \mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}') \\ &= \mathcal{L}_1(\mathbf{r},\mathbf{r}') \end{aligned}$$

$$\begin{aligned} \mathcal{L}_1(\mathbf{r},\mathbf{r}')&= \mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}') \\ &= \mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}') \end{aligned}$$

$$\begin{aligned} \mathcal{L}_1(\mathbf{r},\mathbf{r}')&= \mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}')\mathcal{L}_1(\mathbf{r},\mathbf{r}')\mathcal{L}(\mathbf{r},\mathbf{r}') \\ &= \mathcal{L}_1(\mathbf{r},\mathbf{r}') \end{aligned}$$

$$\mathbb{P}(\mathcal{H}_1\otimes\mathcal{H}_2)\cong\mathbb{P}(\mathcal{H}_1)\otimes\mathbb{P}(\mathcal{H}_2)$$

$$(\mathbb{Z}_2^2)^2$$

$$(\mathbb{Z}_2^2)^2$$

$$(\mathbb{Z}_2^2)^2 \cong \mathbb{Z}_2 \times \mathbb{Z}_4$$

$$(\mathbb{Z}_2^2)^2 \cong \mathbb{Z}_2 \times \mathbb{Z}_4$$

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$$(\mathbb{Z}_2^2)^2 \cong \mathbb{Z}_2 \times \mathbb{Z}_4$$

$$(\mathbb{Z}_2^2)^2 \cong \mathbb{Z}_2 \times \mathbb{Z}_4$$

由式 (3.1.1) 可得 $\hat{\beta}_1 = (X_1'X_1)^{-1}X_1'Y$, 代入式 (3.1.2) 可得 $\hat{\beta}_2 = (X_2'X_2)^{-1}X_2'(Y - X_1\hat{\beta}_1)$, 即

$$\hat{\beta}_2 = (X_2'X_2)^{-1}X_2'(Y - X_1(X_1'X_1)^{-1}X_1'Y) = (X_2'X_2)^{-1}X_2'M_1Y \quad (3.1.3)$$

由式 (3.1.3) 可得 $\hat{\beta}_2$ 的方差-协方差矩阵为 $\text{var}(\hat{\beta}_2) = (X_2'X_2)^{-1}X_2'M_1\text{var}(Y)M_1'X_2(X_2'X_2)^{-1}$, 由式 (3.1.1) 可得 $\text{var}(\hat{\beta}_1) = (X_1'X_1)^{-1}X_1'\text{var}(Y)X_1(X_1'X_1)^{-1}$, 故 $\hat{\beta}_1$ 和 $\hat{\beta}_2$ 的方差-协方差矩阵为

$$\begin{aligned} \text{var}(\hat{\beta}_1, \hat{\beta}_2) &= \begin{pmatrix} (X_1'X_1)^{-1}X_1'\text{var}(Y)X_1(X_1'X_1)^{-1} & (X_1'X_1)^{-1}X_1'\text{var}(Y)X_2(X_2'X_2)^{-1}X_2'M_1 \\ (X_2'X_2)^{-1}X_2'\text{var}(Y)X_1(X_1'X_1)^{-1}X_1' & (X_2'X_2)^{-1}X_2'\text{var}(Y)X_2(X_2'X_2)^{-1} \end{pmatrix} \\ &= \begin{pmatrix} (X_1'X_1)^{-1} & 0 \\ 0 & (X_2'X_2)^{-1} \end{pmatrix} \text{var}(Y) \begin{pmatrix} X_1' & X_2' \end{pmatrix} \begin{pmatrix} X_1(X_1'X_1)^{-1}X_1' & X_1(X_1'X_1)^{-1}X_2(X_2'X_2)^{-1}X_2'M_1 \\ X_2(X_2'X_2)^{-1}X_1(X_1'X_1)^{-1}X_1' & X_2(X_2'X_2)^{-1}X_2'M_1 \end{pmatrix} \end{aligned}$$

由式 (3.1.4) 可得 $\text{var}(\hat{\beta}_1, \hat{\beta}_2)$ 的逆矩阵为 $\begin{pmatrix} X_1(X_1'X_1)^{-1}X_1' & X_1(X_1'X_1)^{-1}X_2(X_2'X_2)^{-1}X_2'M_1 \\ X_2(X_2'X_2)^{-1}X_1(X_1'X_1)^{-1}X_1' & X_2(X_2'X_2)^{-1}X_2'M_1 \end{pmatrix}$, 故

$$\text{var}(\hat{\beta}_1, \hat{\beta}_2) = \begin{pmatrix} (X_1'X_1)^{-1} & 0 \\ 0 & (X_2'X_2)^{-1} \end{pmatrix} \text{var}(Y) \begin{pmatrix} X_1' & X_2' \end{pmatrix} \begin{pmatrix} X_1(X_1'X_1)^{-1}X_1' & X_1(X_1'X_1)^{-1}X_2(X_2'X_2)^{-1}X_2'M_1 \\ X_2(X_2'X_2)^{-1}X_1(X_1'X_1)^{-1}X_1' & X_2(X_2'X_2)^{-1}X_2'M_1 \end{pmatrix}$$

由式 (3.1.5) 可得 $\text{var}(\hat{\beta}_1, \hat{\beta}_2)$ 的逆矩阵为 $\begin{pmatrix} X_1(X_1'X_1)^{-1}X_1' & X_1(X_1'X_1)^{-1}X_2(X_2'X_2)^{-1}X_2'M_1 \\ X_2(X_2'X_2)^{-1}X_1(X_1'X_1)^{-1}X_1' & X_2(X_2'X_2)^{-1}X_2'M_1 \end{pmatrix}$, 故

$$\text{var}(\hat{\beta}_1, \hat{\beta}_2) = \begin{pmatrix} (X_1'X_1)^{-1} & 0 \\ 0 & (X_2'X_2)^{-1} \end{pmatrix} \text{var}(Y) \begin{pmatrix} X_1' & X_2' \end{pmatrix}$$

由式 (3.1.6) 可得 $\text{var}(\hat{\beta}_1, \hat{\beta}_2)$ 的逆矩阵为 $\begin{pmatrix} X_1(X_1'X_1)^{-1}X_1' & X_1(X_1'X_1)^{-1}X_2(X_2'X_2)^{-1}X_2'M_1 \\ X_2(X_2'X_2)^{-1}X_1(X_1'X_1)^{-1}X_1' & X_2(X_2'X_2)^{-1}X_2'M_1 \end{pmatrix}$, 故

$$\text{var}(\hat{\beta}_1, \hat{\beta}_2) = \begin{pmatrix} (X_1'X_1)^{-1} & 0 \\ 0 & (X_2'X_2)^{-1} \end{pmatrix} \text{var}(Y) \begin{pmatrix} X_1' & X_2' \end{pmatrix}$$

由式 (3.1.7) 可得 $\text{var}(\hat{\beta}_1, \hat{\beta}_2)$ 的逆矩阵为 $\begin{pmatrix} X_1(X_1'X_1)^{-1}X_1' & X_1(X_1'X_1)^{-1}X_2(X_2'X_2)^{-1}X_2'M_1 \\ X_2(X_2'X_2)^{-1}X_1(X_1'X_1)^{-1}X_1' & X_2(X_2'X_2)^{-1}X_2'M_1 \end{pmatrix}$, 故

$$\text{var}(\hat{\beta}_1, \hat{\beta}_2) = \begin{pmatrix} (X_1'X_1)^{-1} & 0 \\ 0 & (X_2'X_2)^{-1} \end{pmatrix} \text{var}(Y) \begin{pmatrix} X_1' & X_2' \end{pmatrix}$$

由式 (3.1.8) 可得 $\text{var}(\hat{\beta}_1, \hat{\beta}_2)$ 的逆矩阵为 $\begin{pmatrix} X_1(X_1'X_1)^{-1}X_1' & X_1(X_1'X_1)^{-1}X_2(X_2'X_2)^{-1}X_2'M_1 \\ X_2(X_2'X_2)^{-1}X_1(X_1'X_1)^{-1}X_1' & X_2(X_2'X_2)^{-1}X_2'M_1 \end{pmatrix}$, 故

$$\text{var}(\hat{\beta}_1, \hat{\beta}_2)$$

